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02/28/02
084503

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No. 1875.1760001

First Inventor Jes THYSSEN

Title Efficient Excitation Quantization in a Noise Feedback Coding System Using Correlation Techniques

Express Mail Label No.

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

- | | |
|---|---|
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)
<i>(Submit an original, and a duplicate for fee processing)</i></p> <p>2. <input type="checkbox"/> Applicant claims small entity status.
See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages <u>108</u>]
<i>(preferred arrangement set forth below)</i>
 - Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (<i>if filed</i>)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure</p> <p>4. <input checked="" type="checkbox"/> Drawings (35 U.S.C. 113) [Total Sheets <u>36</u>]</p> <p>5. Oath or Declaration [Total Pages <u>2</u>]
 a. <input checked="" type="checkbox"/> Newly executed (original or copy)
 b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))
<i>(for continuation/divisional with Box 18 completed)</i>
 i. <input type="checkbox"/> DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).</p> <p>6. <input checked="" type="checkbox"/> Application Data Sheet. (See 37 CFR 1.76)</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program
<i>(Appendix)</i></p> <p>8. Nucleotide and/or Amino Acid Sequence Submission
<i>(if applicable, all necessary)</i></p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)
 b. Specification Sequence Listing on:
 i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or
 ii. <input type="checkbox"/> paper
 c. <input type="checkbox"/> Statements verifying identity of above copies</p> |
|---|---|

ACCOMPANYING APPLICATION PARTS

- | |
|--|
| <p>9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & documents)</p> <p>10. <input checked="" type="checkbox"/> 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney</p> <p>11. <input type="checkbox"/> English Translation Document (<i>if applicable</i>)</p> <p>12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</p> <p>13. <input type="checkbox"/> Preliminary Amendment</p> <p>14. <input checked="" type="checkbox"/> Two (2) Return Receipt Postcards (MPEP 503)
<i>(Should be specifically itemized)</i></p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s)
<i>(if foreign priority is claimed)</i></p> <p>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</p> <p>17. <input checked="" type="checkbox"/> Other: <u>Authorization under 37 C.F.R. § 1.136(a)(3)</u></p> <p><input checked="" type="checkbox"/> Other: <u>The name of the assignee is: Broadcom Corporation</u></p> |
|--|

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76.

Continuation Divisional Continuation-in-Part (CIP)
Prior application information: *Examiner* _____ of prior application No. _____ / _____
Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS** Customer Number or Bar Code Label

Customer No. 26111

or Correspondence address below

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PATENT TRADEMARK OFFICE

NAME

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Attorneys at Law

NAME (Print/Type)

Albert J. Fasulo, II

Registration No. (Attorney/Agent)

43,607

SIGNATURE

Date February 28, 2002

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1017 U.S. PTO
02/28/02

February 28, 2002

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Commissioner for Patents
Washington, D.C. 20231

Box: Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
Appl. No. To Be Assigned; Filed: Herewith
For: **Efficient Excitation Quantization in a Noise Feedback Coding System
Using Correlation Techniques**
Inventors: Jes THYSSEN *et al.*
Our Ref: 1875.1760001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
3. U.S. Utility Patent Application entitled:

**Efficient Excitation Quantization in a Noise Feedback Coding System Using
Correlation Techniques**

and naming as inventors:

Jes THYSSEN

Juin-Hwey CHEN

the application consisting of:

- a. A specification containing:

Commissioner for Patents
February 28, 2002
Page 2

- i. 92 pages of description prior to the claims;
 - ii. 15 pages of claims (44 claims - 6 Independent);
 - iii. a one (1) page abstract;
 - b. 36 sheets of drawings: (Figs. 1, 1A, 2, 2A, 3-5, 5A, 6, 6A, 6B, 7-12, 13A-13E, 14A-14E, 15A, 15B, 16A, 16B, 17-21);
 - c. An original executed Declaration; and
 - d. An Application Data Sheet (37 C.F.R. § 1.76).
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
 - 5. Recordation Form Cover Sheet;
 - 6. An original executed Assignment to **Broadcom Corporation**, recordation of which is hereby respectfully requested;
 - 7. An original executed Power of Attorney from Assignee;
 - 8. A Certificate Under 37 C.F.R. § 3.73(b) from Assignee with a copy of the Assignment attached;
 - 9. Two (2) return postcards; and
 - 10. Our check no. 34145 for \$1,464.00 to cover:
\$740.00 Filing fee for patent application;
\$684.00 Fee for excess claims; and
\$ 40.00 Assignment recordation fee.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Commissioner for Patents
February 28, 2002
Page 3

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Albert J. Fasulo, II
Attorney for Applicants
Registration No. 43,607

Enclosures

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 1,464.00)

Complete if Known

Application Number	To Be Assigned
Filing Date	Herewith
First Named Inventor	Jes THYSSEN
Examiner Name	To Be Assigned
Group Art Unit	To Be Assigned
Attorney Docket No.	1875.1760001

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)					
1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:	3. ADDITIONAL FEES					
Deposit Account Number 19-0036	Large Entity	Small Entity				
Deposit Account Name Sterne, Kessler, Goldstein & FOX P.L.L.C.	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid
<input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17	105	130	205	65	Surcharge - late filing fee or oath	
<input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
	139	130	139	130	Non-English specification	
	147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
	115	110	215	55	Extension for reply within first month	
	116	400	216	200	Extension for reply within second month	
	117	920	217	460	Extension for reply within third month	
	118	1,440	218	720	Extension for reply within fourth month	
	128	1,960	228	980	Extension for reply within fifth month	
	119	320	219	160	Notice of Appeal	
	120	320	220	160	Filing a brief in support of an appeal	
	121	280	221	140	Request for oral hearing	
	138	1,510	138	1,510	Petition to institute a public use proceeding	
	140	110	240	55	Petition to revive - unavoidable	
	141	1,280	241	640	Petition to revive - unintentional	
	142	1,280	242	640	Utility issue fee (or reissue)	
	143	460	243	230	Design issue fee	
	144	620	244	310	Plant issue fee	
	122	130	122	130	Petitions to the Commissioner	
	123	130	123	130	Petitions related to provisional applications	
	126	180	126	180	Submission of Information Disclosure Stmt	
Total Claims 44 - 20** = 24 X 18.00 = 432.00						40.00
Indep. Claims 6 - 3** = 3 X 84.00 = 252.00						
Multiple Dependent						
Large Entity Small Entity	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid		
101 740 201 370 Utility filing fee				740.00		
106 330 206 165 Design filing fee						
107 510 207 255 Plant filing fee						
108 740 208 370 Reissue filing fee						
114 160 214 80 Provisional filing fee						
SUBTOTAL (1) (\$)				740.00		
2. EXTRA CLAIM FEES	Extra	Fee from below	Fee Paid			
Total Claims 44 - 20** = 24 X 18.00 = 432.00						
Indep. Claims 6 - 3** = 3 X 84.00 = 252.00						
Multiple Dependent						
Large Entity Small Entity	Fee Code (\$)	Fee (\$)	Fee Description			
103 18 203 9 Claims in excess of 20						
102 84 202 42 Independent claims in excess of 3						
104 280 204 140 Multiple dependent claim						
108 84 209 42 **Reissue independent claims over original patent						
110 18 210 9 **Reissue claims in excess of 20 and over original patent						
SUBTOTAL (2) (\$)				684.00		
*Reduced by Basic Filing Fee Paid						SUBTOTAL (3) (\$)
						40.00
** or number previously paid, if greater; For Reissues, see above						
SUBMITTED BY						
Name (Print/Type)	Albert J. Fasulo, II			Registration No. (Attorney/Agent)	43,607	Telephone
Signature	<i>Albert J. Fasulo, II</i>			Date	February 28, 2002	

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